IDENTIFICATION FOR RESERVATION OF REPLACEMENT STORAGE DEVICES FOR A LOGICAL VOLUME TO SATISFY ITS INTENT

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ABSTRACT OF THE DISCLOSURE

A method, system, and computer program product for identifying and reserving suitable replacement storage devices for use when a storage device underlying a logical

10   volume fails or when the size of the volume is to be increased. Replacement devices are reserved if they conform to the intent of a creator of the logical volume and at the time of creation or reconfiguration of the logical volume. Volume management operations like resizing the volume and evacuating data from the volume use the reserved disks that have already been allocated as suitable to preserve the intent of the creator of the logical volume.

15   Reserving replacement disks in advance ensures that a backup disk is available and eliminates the need to perform a lengthy, time-consuming search for a suitable replacement disk that conforms to the intent of the logical volume.